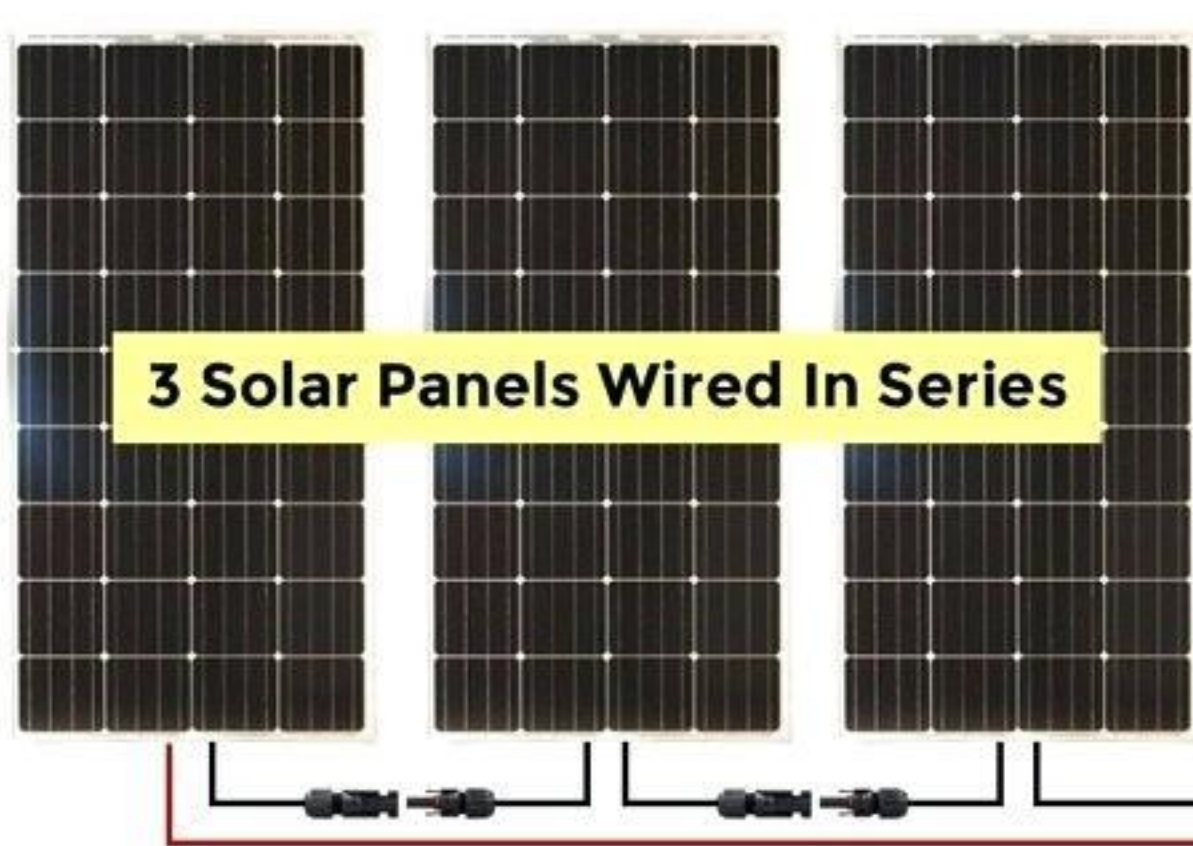




ParkedInParadise.com/electrical



Terminal Rings



Battery Terminal Connectors



MC4 Connectors



Fuse Holder

2001 MADP 4095 SOLAR PANEL WIRING - Kyocera KD245GX panels (09-07-2012)

CONTINUOUS CURRENT = For circuits carrying DC currents from PV modules, multiply the short-circuit current by 125% and use this value for all further calculations (per NEC 690.8 & UL1703).

80% OPERATION = The overcurrent device (i.e. fuse) must be rated at 125% of the CONTINUOUS CURRENT. This is to prevent overcurrent devices from being operated at more than 80% of rating.

For each of the three PV circuits:

$$I_{\text{CONTINUOUS CURRENT}} = I_{\text{Short Circuit Current}} \times 125\% = 8.91 \times 1.25 = 11.14\text{A}$$

$$I_{\text{80% OPERATION}} = I_{\text{CONTINUOUS CURRENT}} \times 125\% = 11.14 \times 1.25 = 13.9\text{A}$$

(use 15A fuse) for 3 circuits:
 $3 \times 13.9 = 41.7\text{A}$

Cable ampacity without deratings must be 13.9A

